

Application No.: 10/618,728
Amendment under 37 CFR 1.111
Reply to Office Action dated May 24, 2005
August 23, 2005

AMENDMENTS TO THE CLAIMS

Please substitute the following claims for the pending claims with the same numbers respectively:

Claim 1 (Previously presented): A modified red phosphorus comprising red phosphorus-containing particles whose surfaces are coated with a modified resin film containing white particles having a whiteness of 70 or more, color particles having a hue H of 30 to 80 in the Munsell color-system hue circle, and a binder resin.

Claim 2 (Previously presented): A modified red phosphorus according to claim 1, wherein the red phosphorus-containing particles are at least one type selected from the group consisting of red phosphorus particles, stabilized red phosphorus comprising the red phosphorus particles whose surfaces are coated with an inorganic material, stabilized red phosphorus comprising the red phosphorus particles whose surfaces are coated with a thermosetting resin, and double-coated stabilized red phosphorus comprising the red phosphorus particles whose surfaces are coated with the inorganic material and further coated with the thermosetting resin.

Application No.: 10/618,728
Amendment under 37 CFR 1.111
Reply to Office Action dated May 24, 2005
August 23, 2005

Claim 3 (Currently amended): A modified red phosphorus according to claim 1, wherein the content of the white particles is 10 to 50% by of a total weight of the modified red phosphorus, and the content of the color particles is 0.1 to 5.0% by of the total weight of the modified red phosphorus.

Claim 4 (Previously presented): A modified red phosphorus according to claim 1, wherein the average particle diameter is 1 to 100 μm .

Claim 5 (Currently amended): A modified red phosphorus according to claim 1, wherein the red phosphorus content is 50 to 90% by of a total weight of the modified red phosphorus.

Claim 6 (Previously presented): A modified red phosphorus according to claim 1, wherein the white particles are composed of titanium dioxide.

Claim 7 (Currently amended): A modified red phosphorus according to claim 1, wherein the color particles are at least one of green particles or and blue particles.

Application No.: 10/618,728
Amendment under 37 CFR 1.111
Reply to Office Action dated May 24, 2005
August 23, 2005

Claim 8 (Currently amended): A modified red phosphorus according to claim 1, wherein the color particles are particles of at least one pigment selected from the group consisting of phthalocyanine green, phthalocyanine blue, dichromium trioxide, ultramarine blue, and iron blue.

Claim 9 (Currently amended): A method ~~of~~ for producing modified red phosphorus, said method comprising the steps of:

~~performing a curing reaction of a binder resin in providing an aqueous slurry containing red phosphorus-containing particles, white particles having a whiteness of 70 or more, and color particles having a hue H of 30 to 80 in the Munsell color-system hue circle;~~
combining a binder resin with the aqueous slurry; and
curing the binder resin containing the red phosphorus-containing particles, the white particles having a whiteness of 70 or more, and the color particles having a hue H of 30 to 80 in the Munsell color-system hue circle.

Claim 10 (Currently amended): A method ~~of~~ for producing modified red phosphorus according to claim 9, wherein the said step of curing reaction of the binder resin is includes using at least one

Application No.: 10/618,728
Amendment under 37 CFR 1.111
Reply to Office Action dated May 24, 2005
August 23, 2005

of a polymerization reaction of a synthetic raw material or and an initial condensation product of a thermosetting resin.

Claim 11 (Currently amended): A method ~~of~~ for producing modified red phosphorus according to claim 9, wherein ~~the~~ said step of curing ~~reaction of~~ the binder resin ~~is~~ includes using a radical polymerization reaction of a monomer having an unsaturated double bond.

Claim 12 (Currently amended): A method ~~of~~ for producing modified red phosphorus according to claim 9, wherein ~~the~~ said step of curing ~~reaction of~~ the binder resin ~~is~~ includes using a polymerization reaction of a cationic water-soluble resin in the presence of a nonionic surfactant or anionic surfactant.

Claim 13 (Currently amended): A method ~~of~~ for producing modified red phosphorus according to claim 10, wherein ~~the~~ thermosetting resin is said step of curing the binder resin includes using a phenolic resin.

Claim 14 (Currently amended): A method ~~of~~ for producing modified red phosphorus according to claim 12, wherein ~~the~~ cationic

Application No.: 10/618,728
Amendment under 37 CFR 1.111
Reply to Office Action dated May 24, 2005
August 23, 2005

~~water-soluble resin is~~ said step of curing the binder resin includes
using a polyamide-epoxy resin.

Claim 15 (Previously presented): A decolorized red phosphorus composition comprising a mixed powder containing modified red phosphorus, said modified red phosphorus comprising red phosphorus-containing particles whose surfaces are coated with a modified resin film containing white particles having a whiteness of 65 or more, color particles having a hue H of 30 to 80 in the Munsell color-system hue circle, and a binder resin.

Claim 16 (Cancelled):

Claim 17 (Currently amended): A decolorized red phosphorus composition according to claim 15, wherein the whiteness is at least 70 ~~or more~~.

Claim 18 (Currently amended): A decolorized red phosphorus composition according to claim 15, wherein the hue H in the Munsell color-system hue circle is 20 38 to 80 78.

Application No.: 10/618,728
Amendment under 37 CFR 1.111
Reply to Office Action dated May 24, 2005
August 23, 2005

Claim 19 (Currently amended): A decolorized red phosphorus composition according to claim 15, wherein the red phosphorus content is at least 20% by of a total weight of the modified red phosphorus ~~or more.~~

Claim 20 (Previously presented): A decolorized red phosphorus composition according to claim 15, wherein the white particles are composed of titanium dioxide.

Claim 21 (Currently amended): A decolorized red phosphorus composition according to claim 15, wherein the color particles are at least one of green particles or and blue particles.

Claim 22 (Previously presented): A flame-retardant polymer composition comprising a decolorized red phosphorus composition and a polymer compound (I), said red phosphorus composition comprising a mixed powder containing modified red phosphorus, said modified red phosphorus comprising red phosphorus-containing particles whose surfaces are coated with a modified resin film containing white particles having a whiteness of 65 or more, color particles having a hue H of 30 to 80 in the Munsell color-system hue circle, and a binder resin.